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SOURCE Radio, No 1, 1950.

UTILIZING THE RODINA RECEIVER IN RECEIVING-PUBLIC ADDRESS CENTERS

A. Engel's
 Ponazyr Rayon
 Kostrom Oblast

In using the Rodina-47 (Elektrosignal-3) radio receiver as a small "radio center," I coupled the wired radio network to the receiver through a separate output transformer. I connected the primary winding of this transformer to the additional loudspeaker jack of the receiver through a fixed paper condenser (0.5 microfarad). A change in the network load with this type of connection produced almost no effect on the loudspeaker volume of the receiver itself. Even a short circuit in the network or secondary winding of the supplementary output transformer has no appreciable effect on the performance of the receiver loudspeaker.

By this method 70 Rekord loudspeakers were connected with an Elektrosignal-3 receiver in the "Shortyug Lestrankhoz" radio center of the Komstromtranes Trust. The receiver supplies 25 radio (loudspeaker) points in the Kashirov Village Soviet; 20 at section No 1 of the Shabulin Mekhlespunkt, Kirov Oblast; and 30 points in one of the "lesopunkts" (logging sites) of the "Shortyug Lestrankhoz."

In my arrangement, the primary winding of the output transformer has 8,000 turns of PE 0.12 enameled wire while the secondary has 500 turns of PE 0.4 enameled. The number of turns in the secondary winding depends upon the type and number of loudspeakers used. If the number of points served is not large -- say 10 to 20 -- and high-resistance speakers are used, the number of turns in the secondary winding must be increased to 800-1,000.

Of course, the volume of subscribers' loudspeakers will decrease with an increase in the number of radio points served. But with the connection described above, 25-30 Rekord speakers were relatively loud.

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